

APRIL/MAY 2025

**CEBT64B/FEBT64B — PHARMACEUTICAL
BIOTECHNOLOGY**

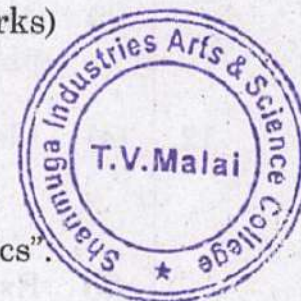
Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. Define Pharmacology.
2. Explain the term "Pharmacodynamics".
3. What is meant by chemotherapy?
4. Outline the significance of HAT mediums.
5. What is immobilization?
6. List the applications of immobilization.
7. What is meant by microencapsulation?
8. Explain about coacervation.
9. What is animal house facility?
10. Explain the term bioassay.



SECTION B — (5 × 5 = 25 marks)

Answer ALL the questions.

11. (a) Make use of chart to illustrate Various routes of drug administration.

Or

- (b) Analyze the principle and applications of pharmacology.

12. (a) Identify the drugs used for treating cancer.

Or

- (b) Examine how human insulin is prepared.

13. (a) Identify the procedure involved in immobilization of plant cells.

Or

- (b) Analyze the factors affecting enzyme kinetics.

14. (a) Identify the importance of microencapsulation in pharmacy.

Or

- (b) Examine the types of microcapsules.

15. (a) Identify and explain the principle involved in drug discovery.

Or

- (b) Analyse various experimental models employed in research to prove the findings.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain the metabolism of drugs in detail.

17. Appraise the steps involved in production of monoclonal antibodies.

18. Explain the techniques of immobilization.

19. Elaborate on the production of hard and soft gelatin capsules.

20. Discuss the ethical requirements and regulations for laboratory animal care.

